

# CTR Employer Survey Report

Thank you for completing your Commute Trip Reduction survey. This report contains the survey results.

**Employer Id :** E99846

**Employer :** The Boeing Company

**Worksite :** The Boeing Company - Benaroya

**Street :** 20655 Nw 84th Ave S

**Jurisdiction :** City of Kent

**Survey Date :** 4/19/2009

## SAMPLING

**Survey Type :** Online

**Response Rate :** 49%

### Drive Alone & One-Way VMT Rates at this Worksite

**Drive Alone :** 87.9%

**One-Way VMT per employee :** 17.2

### Employees and Survey Response Information

**Reported Total Employees at Worksite :** 87

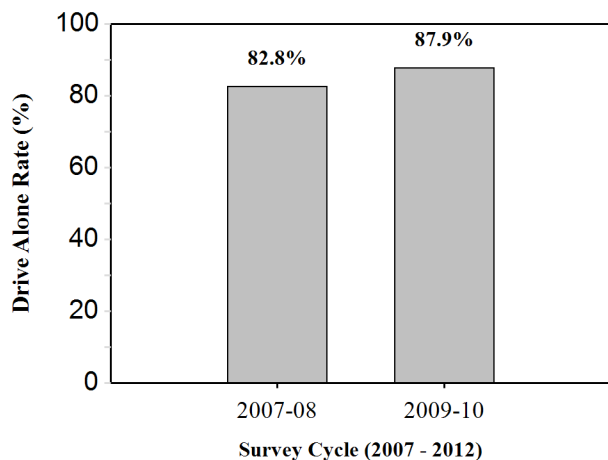
**Surveys Distributed :** 87

**Surveys Returned :** 43

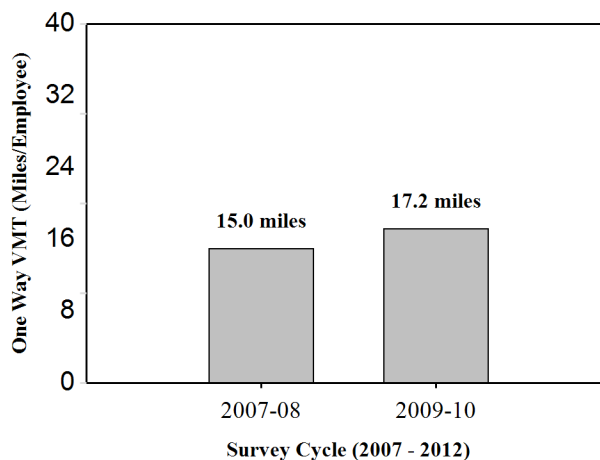
**Surveys Returned by CTR Affected Employees :** 43

**Total Estimated CTR - Affected Employees at Worksite :** 87

**Drive Alone - All Employees**



**One Way VMT per Employee - All Employees**



## Site History and Goal

Cycle	Drive Alone - All	Drive Alone - CTR Affected	VMT / Employee - All	VMT / Employee - CTR Affected
2007-08	82.8%	75.7%	15.0	12.2
2009-10	87.9%	87.9%	17.2	17.2
Goal for 2011-12	74.5%	68.1%	13.1	10.6
Percent Change From First Survey	6.2%	16.1%	14.7%	41.0%

Note: An "affected" employee is a person who works full-time and who begins a regular work day at a single worksite between 6 am and 9 am on two or more weekdays for at least twelve continuous months.

\*\* Goal is an estimate only, based on an assumed 10% reduction in drive alone rate and a 13% reduction in VMT/employee from the first survey conducted from 2007 to 2010. However, jurisdictions can set higher goals, and may set different goals for individual worksites. Goal is calculated off of the first survey without fill-in applied. Drive alone rate includes one-person motorcycles.

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## Comparison Between Rates With and Without Fill-In

The survey response rate is indicated on Page 1. To encourage a response rate of at least 70%, additional drive alone trips are added to survey results for worksites with a response rate of less than 70%. For these worksites it is assumed that non-responding employees between the actual response rate and 70% drive alone 5 days a week. These additional trips represent the "Fill-In" applied. Note that fill-in is not applied to a worksite's first survey in the 2007 to 2012 cycle (their baseline survey).

	2007-2008	2009-2010	2009-2010 without Fill In
<b>Drive Alone - All Employees*</b>	82.8%	87.9%	82.9%
<b>VMT/Employee - All Employees</b>	15.0	17.2	16.5
<b>Drive Alone - CTR Affected Employees*</b>	75.7%	87.9%	82.9%
<b>VMT/Employees - CTR Affected Employees</b>	12.2	17.2	16.5

\* Drive alone rate includes one person motorcycles.

## GHG Emissions: Total for Drive Alone, Carpools, Vanpools

### Annual Greenhouse Gas Emissions (Metric Tons CO<sub>2</sub>e) for Roundtrip Commute\*

	2007-2008	2009-2010
<b>Emissions for Surveyed Employees</b>	560	160
<b>Estimated Emissions for Total Employment</b>	802	324

\* Estimated based on VMT from commuters driving alone, carpooling, vanpooling, or motorcycling, without fill-in applied.

## Bus Transit Passenger Miles and Rail Transit Passenger Miles\*

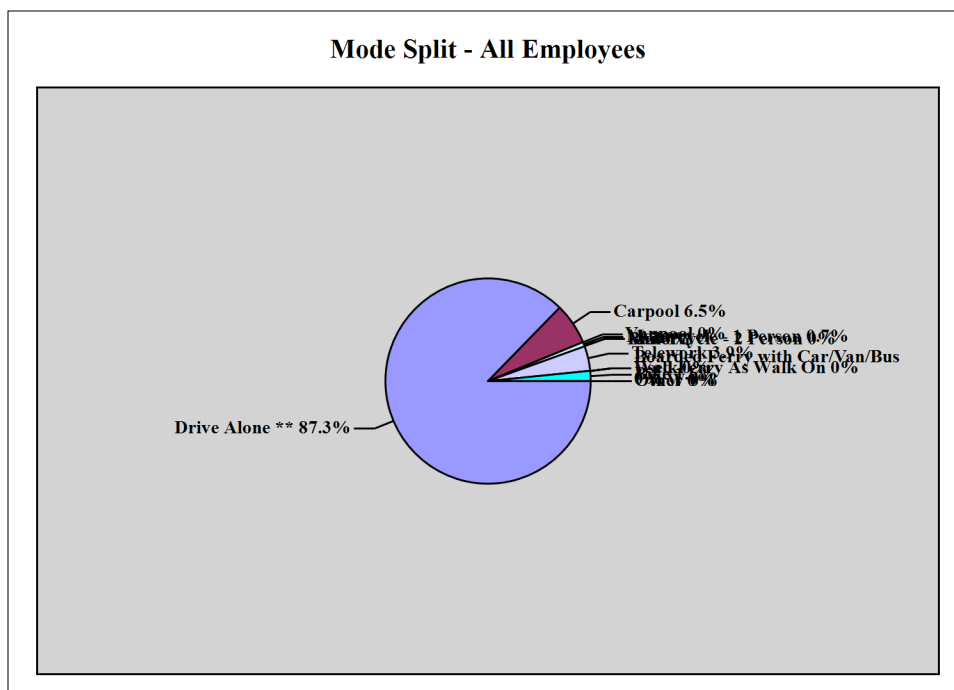
Annual Transit Passenger Miles (includes Roundtrip Commute)	2007-2008	2009-2010
<b>Bus Annual Passenger Miles - Surveyed Employees</b>	0	0
<b>Bus Annual Passenger Miles - Estimated for Total Employment</b>	0	0
<b>Train/Light Rail/Streetcar Annual Passenger Miles - Surveyed Employees</b>	0	0
<b>Train/Light Rail/Streetcar Annual Passenger Miles - Estimated for Total Employment</b>	0	0
<b>Ferry Annual Passenger Miles - Surveyed Employees</b>	0	0
<b>Ferry Annual Passenger Miles - Estimated for Total Employment</b>	0	0

\* Transit passenger miles can be used to gauge changes in transit usage, and also to calculate greenhouse gas emissions from transit commute trips. However, emissions attributable to transit vary widely, depending on the efficiency/energy source of transit vehicles and transit vehicle passenger load (typically ranging from 0.1 to 0.9 pounds CO<sub>2</sub>e emissions/passenger mile). Employers are strongly encouraged to contact their local transit agencies for more precise information on GHG emissions for their transit trips. If nothing else is available, the value of 0.47 pounds (0.00021 metric tons) per passenger mile can be used to estimate CO<sub>2</sub>e emissions for bus transit, and 0.39 pounds (0.00018 metric tons) CO<sub>2</sub>e emissions per passenger mile for train/light rail/streetcar.

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## Commute Trips By Mode - All Employees \*

Q.4a: Last week, what type of transportation did you use each day to commute TO your usual work location? (Mode used for the longest distance.)



Mode	Trips During This Survey Week	% of Trips During This Survey Week	% of Trips During Previous Survey Week	Employees Who Used This Mode at Least Once During This Survey Week	% of Employees Who Used This Mode at Least Once During This Survey Week	% of Employees Who Used This Mode at Least Once During Previous Survey Week
Drive Alone **	267	87.3%	82.8%	37	86%	88.2%
Carpool	20	6.5%	5.9%	6	14%	9.2%
Vanpool	0	0%	0%	0	0%	0%
Motorcycle - 1 Person	2	0.7%	0%	1	2.3%	0%
Motorcycle - 2 Person	0	0%	0%	0	0%	0%
Bus	0	0%	0%	0	0%	0%
Rail	0	0%	0%	0	0%	0%
Telework	12	3.9%	5.4%	3	7%	11.8%
Boarded Ferry with Car/Van/Bus	0	0%	0%	0	0%	0%
Used Ferry As Walk On	0	0%	0%	0	0%	0%
Walk	0	0%	0%	0	0%	0%
Bike	5	1.6%	0.6%	1	2.3%	0.7%
CWW	0	0%	1.7%	0	0%	6.5%
Other	0	0%	3.7%	0	0%	4.6%

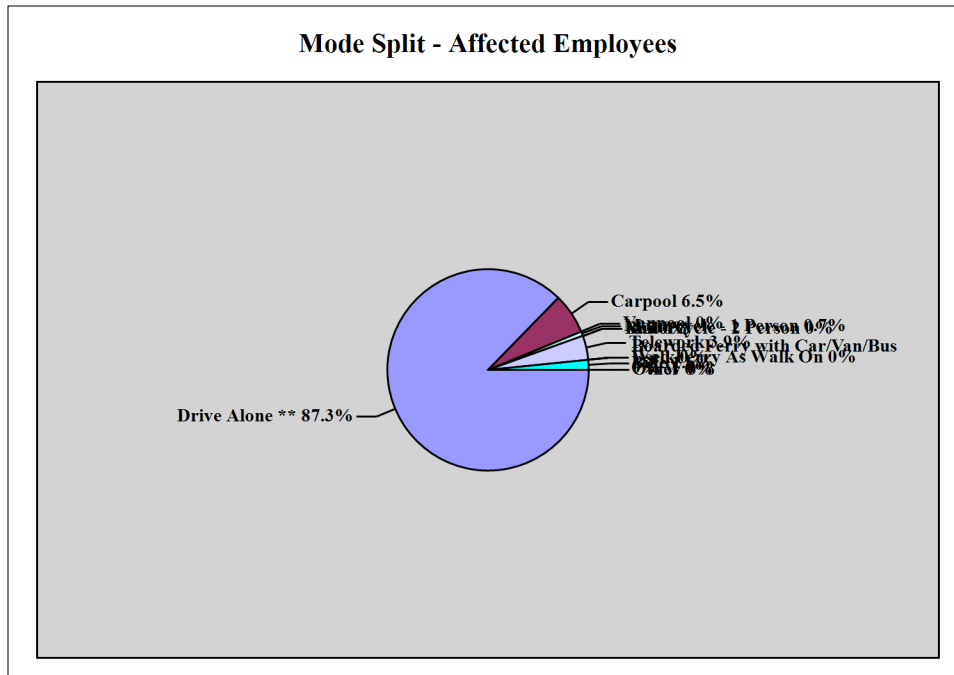
\* Mode shares in 2009/2010 survey are not entirely consistent with mode shares in 2007/08 survey since 2009/2010 survey included new modes (i.e. two ferry options)

\*\* Drive alone mode includes fill-in, where applicable.

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## Commute Trips By Mode - Affected Employees \*

Q.4a: Last week, what type of transportation did you use each day to commute TO your usual work location? (Mode used for the longest distance.)



Mode	Trips During This Survey Week	% of Trips During This Survey Week	% of Trips During previous Survey Week	Employees Who Used This Mode At Least Once During This Survey Week	% of Employees Who Used This Mode At Least Once During This Survey Week	% of Employees Who Used This Mode at Least Once During previous Survey Week
Drive Alone **	267	87.3%	75.7%	37	86%	83.1%
Carpool	20	6.5%	7.2%	6	14%	10.4%
Vanpool	0	0%	0%	0	0%	0%
Motorcycle - 1 Person	2	0.7%	0%	1	2.3%	0%
Motorcycle - 2 Person	0	0%	0%	0	0%	0%
Bus	0	0%	0%	0	0%	0%
Rail	0	0%	0%	0	0%	0%
Telework	12	3.9%	9.1%	3	7%	16.9%
Boarded Ferry with Car/Van/Bus	0	0%	0%	0	0%	0%
Used Ferry As Walk On	0	0%	0%	0	0%	0%
Walk	0	0%	0%	0	0%	0%
Bike	5	1.6%	0%	1	2.3%	0%
CWW	0	0%	2.4%	0	0%	9.1%
Other	0	0%	5.7%	0	0%	6.5%

\* Mode shares in 2009/2010 survey are not entirely consistent with mode shares in 2007/08 survey since 2009/2010 survey included new modes (i.e. two ferry options).

\*\* Drive alone mode includes fill-in, where applicable.

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### Alternative Modes - Number of Employees Who Used a Non-Drive Alone Mode:

Non-Drive Alone Number Of Days	Exactly this # of Employees	Exactly this % of Employees	At least # of Employees	At least % of employees
0 Day	34	79%	43	100%
1 Days	1	2%	9	21%
2 Days	0	0%	8	19%
3 Days	1	2%	8	19%
4 Days	2	5%	7	16%
5 Days	5	12%	5	12%
6 or More Days	0	0%	0	0%

### Work Schedules By Group - All Employees (This table shows the relationship between work schedule and commute mode)

Employees who worked:	Drive Alone 5 days / week		Drive Alone 3 or 4 days / week		Used Bus At Least 3 days / week		Carpooled At Least 3 days / week		Used Rail At Least 3 days / week		Vanpooled At Least 3 times / week		Biked or Walked At Least 3 Days / week		Used 'Other' Modes At Least 3 Days / week		Used Non- Drive Alone At Least 3 Days / week	
5 days a week	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
4 days a week (4/10s)	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
3 days a week	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
9 days in 2 weeks (9/80)	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
7 days in 2 weeks	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
Other	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%

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## Count by Occupancy of Carpools, Vanpools, and Motorcycles

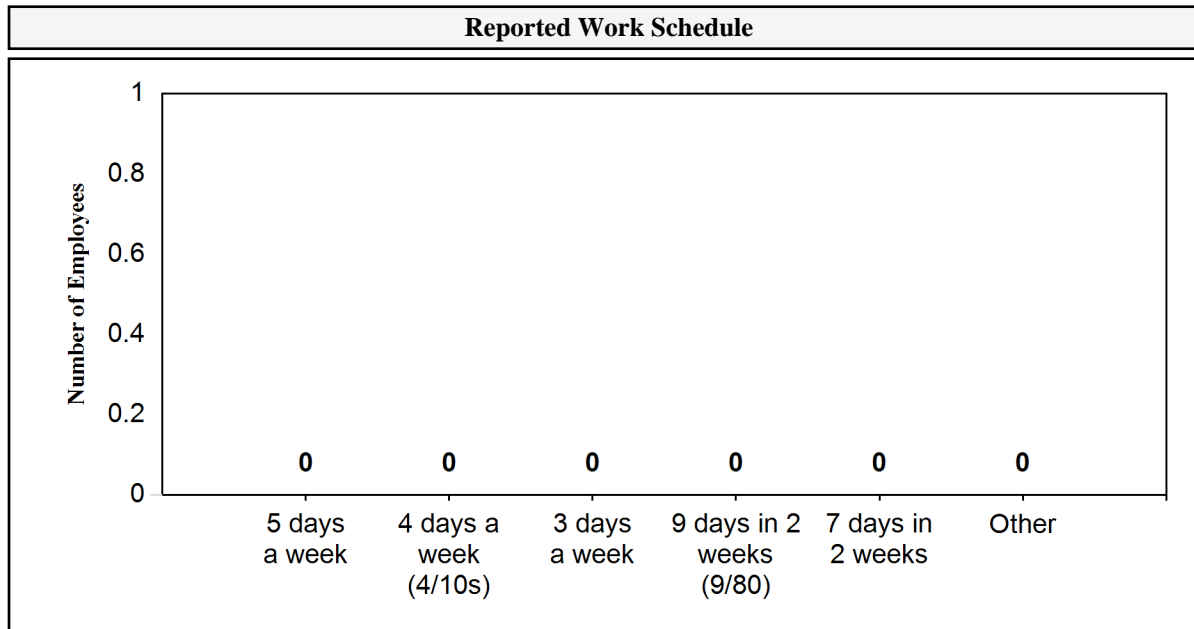
**Q.4b** If you used a carpool or vanpool as part of your commute, or if you ride a motorcycle, how many people (age 16 or older) are usually in the vehicle?

Ridesharing Occupancy	Mode	Response Count
1	Motorcycle	2
2	Motorcycle	0
2	Carpool	9
3	Carpool	10
4	Carpool	1
5	Carpool	0
>5	Carpool	0
<5	Vanpool	0
5	Vanpool	0
6	Vanpool	0
7	Vanpool	0
8	Vanpool	0
9	Vanpool	0
10	Vanpool	0
11	Vanpool	0
12	Vanpool	0
13	Vanpool	0
14	Vanpool	0
15	Vanpool	0

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## Reported Work Schedule - All Employees

Q.5 Which of the following most fits your normal work schedule?



Reported Work Schedule	# Of Responses	% Of Employees
5 days a week	0	0%
4 days a week (4/10s)	0	0%
3 days a week	0	0%
9 days in 2 weeks (9/80)	0	0%
7 days in 2 weeks	0	0%
Other	0	0%

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## Use Of Alternatives - Telework

Q.6b Employees who reported teleworking at least once in the previous two weeks, days teleworked in the last two weeks.

Number Of Days Teleworked	# Of Responses	% Of Total Employees
0	0	0%
1	0	0%
2	1	2.3%
3	0	0%
4	1	2.3%
5	1	2.3%
6	0	0%
7	0	0%
8	0	0%
9	0	0%
10	2	4.7%
Not Answered	38	88.4%



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## Distance to Work, Use of Ferries, Park-and-Ride lots or Paid Parking by All Employees

Q.7a. One-way, how many miles do you commute?

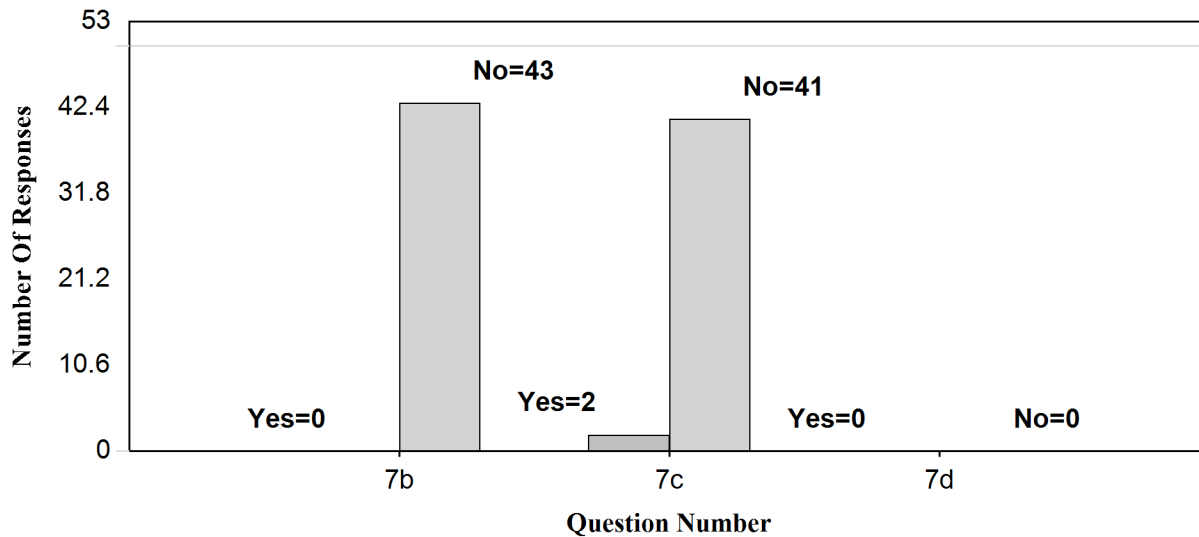
Average one-way distance home to work: 18.6 miles

Q.7b. Last week did you ride a ferry as part of your commute?

Q.7c. Last week did you use a park-and-ride lot as part of your commute?

Q.7d. Last week did you pay for parking as part of your commute?

### Ferry, Park-and-Ride, or Paid Parking



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## Preferred Incentives by All Employees

Q.9 If you drive alone to work, which of the following would most encourage you to try using an alternative to driving alone? (Respondents asked to select the three incentives most important to them.)

Preferred Incentive	# of Responses	% of all Responses
A more flexible work schedule to meet carpools, vanpools, the bus,etc.	9	14.1%
An employer-provided car for work purposes during work hours	8	12.5%
More frequent bus service at the worksite	6	9.4%
Transportation during lunch or breaks for personal errands	5	7.8%
Personalized help forming a carpool or vanpool	4	6.3%
Other:	4	6.3%
A financial subsidy for giving up your parking space	2	3.1%
Personalized help finding bus times and routes	2	3.1%
An immediate ride home in case of an emergency(guaranteed ride home)	11	17.2%
A financial incentive (allowance/subsidy) for using an alternative to driving alone	11	17.2%

On-site food service or kitchen facility	1	1.6%
More information about commute alternatives	1	1.6%
Opportunity to work at home(telework)	0	0%
Improved security at park-and-ride lots	0	0%
More spaces at park-and-ride lots	0	0%
Priority, reserved, or discounted parking for carpools and vanpools	0	0%
Secured, covered parking for your bicycle	0	0%
Lockers and showers for walkers and bicyclists	0	0%
on-site childcare, banking, dry cleaning, fitness center or other services	0	0%

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### Likelihood of Trying Alternative Modes (Percentage of All Employees)

Q.10: How likely would you be to try the following ways of getting to work?

Mode	Do Now	Likely	Not Likely	Not an Option	# of Responses
Carpool	30.2%	23.3%	14.0%	20.9%	38
Vanpool	27.9%	20.9%	4.7%	23.3%	33
Bus	25.6%	11.6%	0.0%	32.6%	30
Train	14.0%	14.0%	0.0%	51.2%	34
Bicycle	16.3%	7.0%	0.0%	44.2%	29
Walking	14.0%	23.3%	11.6%	18.6%	29
Telework	0.0%	30.2%	16.3%	30.2%	33
CWW	20.9%	20.9%	0.0%	27.9%	30

### Employee Transit Use - All Employees

Q.11: Last week, how many one-way transit or walk-on ferry rides did you take on each listed below (for any purpose, not just getting to and from work)?

Trips / Week	Employees Making This Many Transit Trips in a Week									
	King County Metro	Sound Transit	Community Transit	Pierce Transit	Kitsap Transit	Intercity Transit	Everett Transit	Island Transit	Ferry As Walk-On	Other Transit
1	1	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
11 or more	0	0	0	0	0	0	0	0	0	0
# Of Employees using Transit	1	0	0	0	0	0	0	0	0	0
Total One-Way Transit Trips Per Week	1	0	0	0	0	0	0	0	0	0

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## Employee Transit Use - Affected Employees

**Q.11: Last week, how many one-way transit or walk-on ferry rides did you take on each listed below (for any purpose, not just getting to and from work)?**

Trips / Week	Employees Making This Many Transit Trips in a Week									
	King County Metro	Sound Transit	Community Transit	Pierce Transit	Kitsap Transit	Intercity Transit	Everett Transit	Island Transit	Ferry As Walk-On	Other Transit
1	1	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
11 or more	0	0	0	0	0	0	0	0	0	0
# Of Employees using Transit	1	0	0	0	0	0	0	0	0	0
Total One-Way Transit Trips Per Week	1	0	0	0	0	0	0	0	0	0

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## Commute Mode By ZipCode for All Employees

Q8. What is your home zip code?

Home Zip code	Total Employees	Employee Percentage	Weekly Count of Trips By Mode												
			Drive Alone	Carpool	Vanpool	Motorcycle	Bus	Train	Bike	Walk	Telework	CWW	Ferry (car/van/bus)	Ferry (walk-on)	Other
98042	4	9.30	22	1	0	0	0	0	0	0	0	0	0	0	0
98031	3	6.98	5	0	0	0	0	0	5	0	5	0	0	0	0
98038	3	6.98	15	0	0	0	0	0	0	0	0	0	0	0	0
98360	2	4.65	10	0	0	0	0	0	0	0	0	0	0	0	0
98371	2	4.65	8	4	0	0	0	0	0	0	0	0	0	0	0
98391	2	4.65	12	0	0	0	0	0	0	0	0	0	0	0	0
98022	2	4.65	10	0	0	0	0	0	0	0	0	0	0	0	0
98030	2	4.65	3	0	0	2	0	0	0	0	5	0	0	0	0
98032	1	2.33	5	0	0	0	0	0	0	0	0	0	0	0	0
98001	1	2.33	5	0	0	0	0	0	0	0	0	0	0	0	0
98002	1	2.33	2	1	0	0	0	0	0	0	2	0	0	0	0
98010	1	2.33	5	0	0	0	0	0	0	0	0	0	0	0	0
98011	1	2.33	5	0	0	0	0	0	0	0	0	0	0	0	0
98056	1	2.33	5	0	0	0	0	0	0	0	0	0	0	0	0
98058	1	2.33	2	0	0	0	0	0	0	0	0	0	0	0	0
98092	1	2.33	5	0	0	0	0	0	0	0	0	0	0	0	0
98116	1	2.33	5	0	0	0	0	0	0	0	0	0	0	0	0
98118	1	2.33	5	0	0	0	0	0	0	0	0	0	0	0	0
98166	1	2.33	4	0	0	0	0	0	0	0	0	0	0	0	0
98178	1	2.33	5	0	0	0	0	0	0	0	0	0	0	0	0
98321	1	2.33	5	0	0	0	0	0	0	0	0	0	0	0	0
98338	1	2.33	5	0	0	0	0	0	0	0	0	0	0	0	0
98354	1	2.33	5	0	0	0	0	0	0	0	0	0	0	0	0
98443	1	2.33	0	4	0	0	0	0	0	0	0	0	0	0	0
98444	1	2.33	5	0	0	0	0	0	0	0	0	0	0	0	0
98446	1	2.33	0	5	0	0	0	0	0	0	0	0	0	0	0
98465	1	2.33	5	0	0	0	0	0	0	0	0	0	0	0	0
98499	1	2.33	5	0	0	0	0	0	0	0	0	0	0	0	0

			Weekly Count of Trips By Mode												
Home Zip code	Total Employees	Employee Percentage	Drive Alone	Carpool	Vanpool	Motorcycle	Bus	Train	Bike	Walk	Telework	CWW	Ferry (car/van/bus)	Ferry (walk-on)	Other
98373	1	2.33	0	5	0	0	0	0	0	0	0	0	0	0	0
98374	1	2.33	5	0	0	0	0	0	0	0	0	0	0	0	0
98387	1	2.33	5	0	0	0	0	0	0	0	0	0	0	0	0